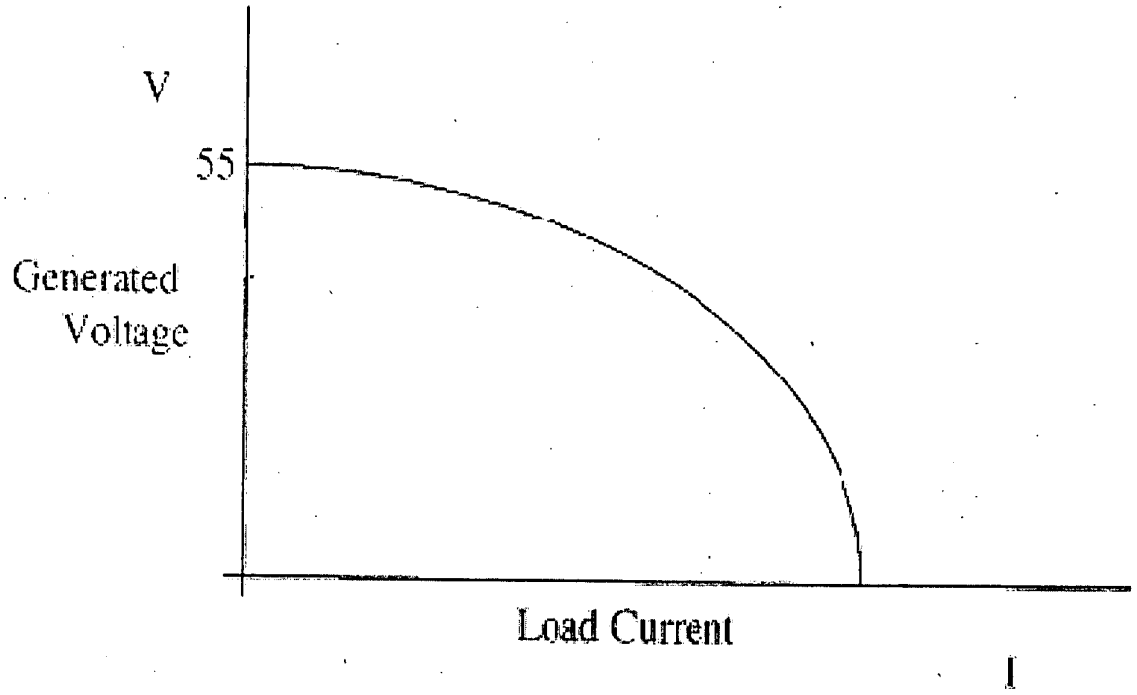

FIGURE 1

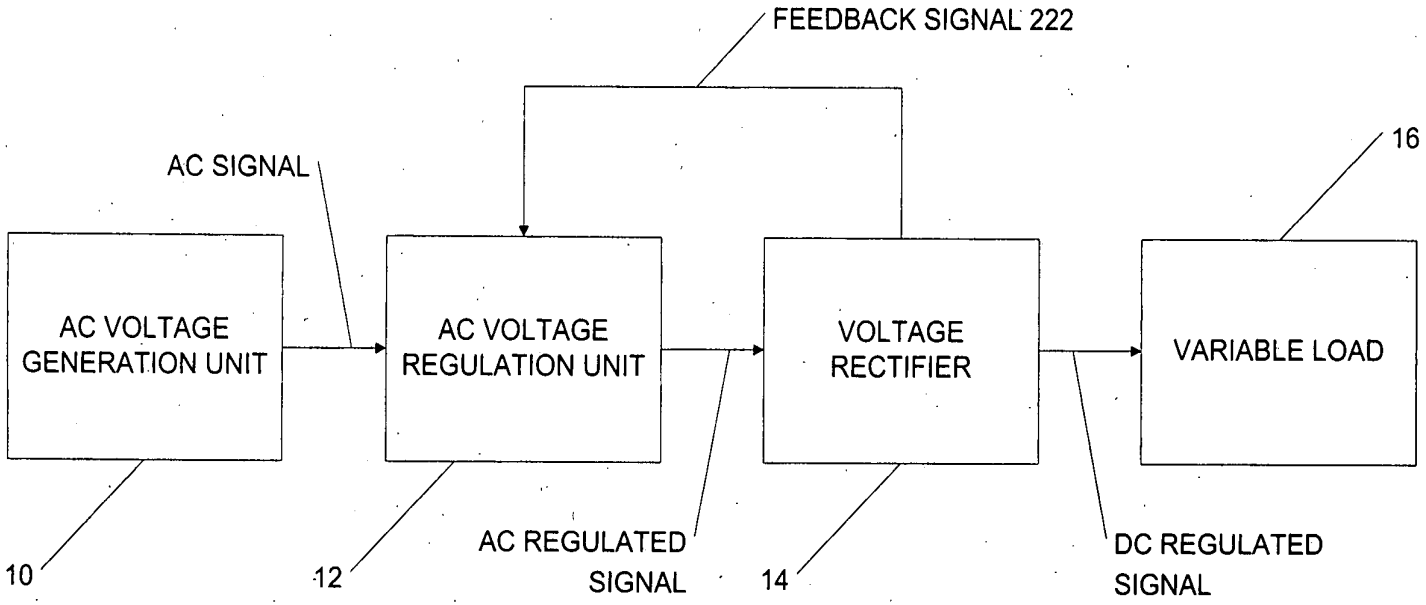
FEEDBACK SIGNAL 222
AC SIGNAL
16
AC VOLTAGE GENERATION UNIT
AC VOLTAGE REGULATION UNIT
VOLTAGE RECTIFIER
VARIABLE LOAD
10
12
AC REGULATED SIGNAL
14
DC REGULATED SIGNAL

FIGURE 2

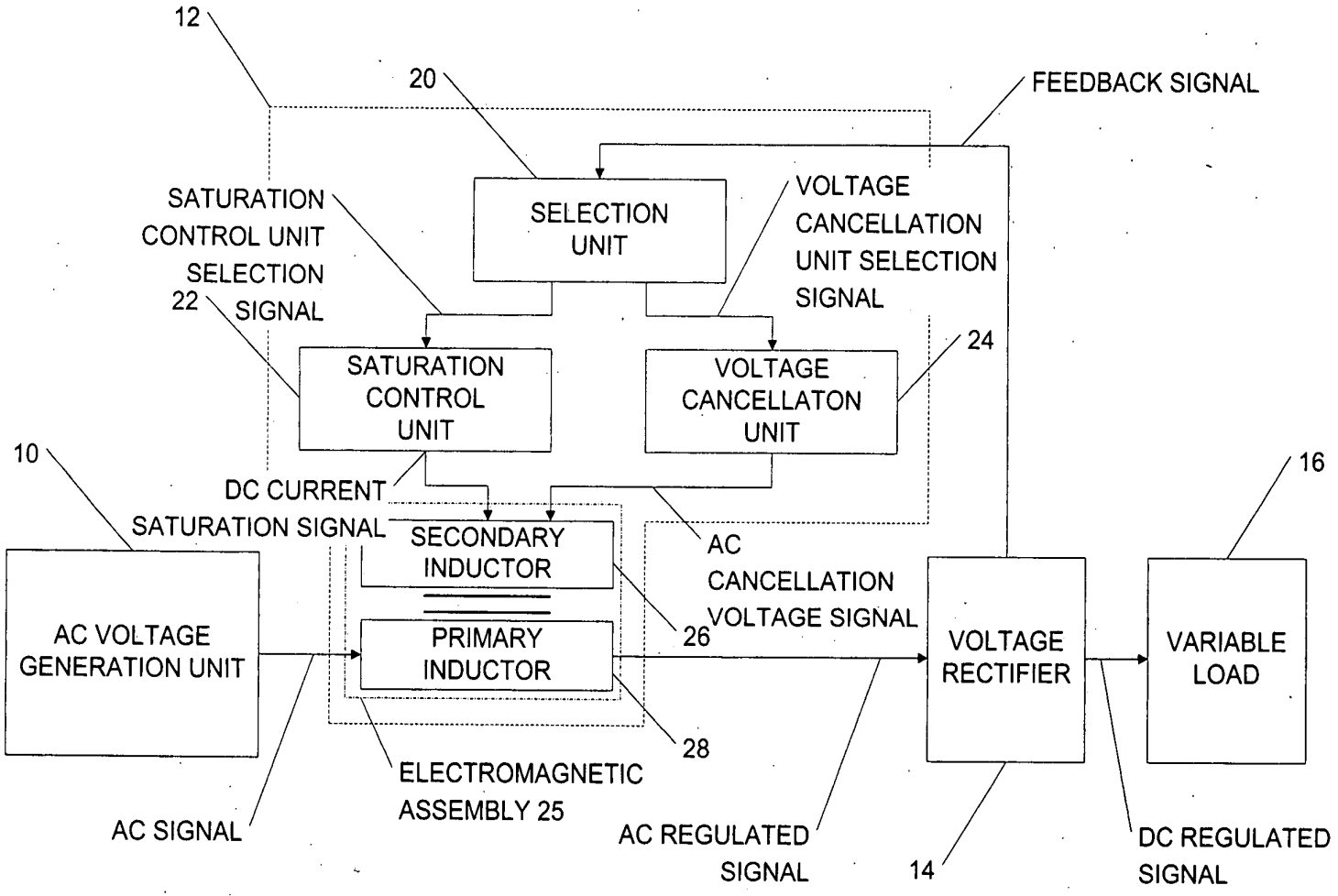
12
20
FEEDBACK SIGNAL
SATURATION CONTROL UNIT SELECTION SIGNAL
22
SELECTION UNIT
VOLTAGE CANCELLATION UNIT SELECTION SIGNAL
24
SATURATION CONTROL UNIT
VOLTAGE CANCELLATON UNIT
10
DC CURRENT SATURATION SIGNAL
SECONDARY INDUCTOR
AC CANCELLATION VOLTAGE SIGNAL
16
AC VOLTAGE GENERATION UNIT
PRIMARY INDUCTOR
26
VOLTAGE RECTIFIER
VARIABLE LOAD
28
ELECTROMAGNETIC ASSEMBLY 25
AC SIGNAL
AC REGULATED SIGNAL
14
DC REGULATED SIGNAL

FIGURE 3

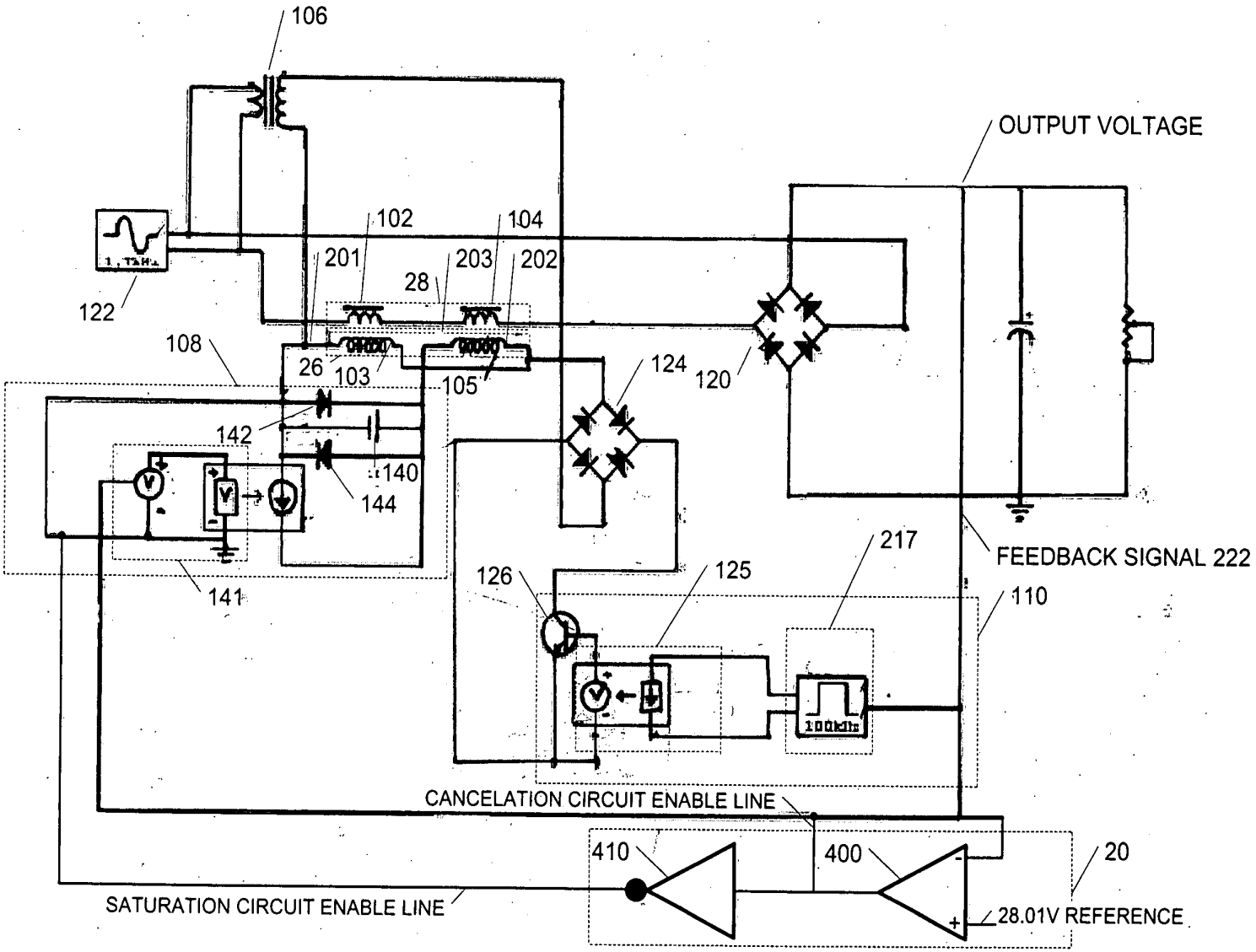
106
OUTPUT VOLTAGE
102
104
201
203
202
28
122
108
26
103
105
124
120
142
140
144
FEEDBACK SIGNAL 222
217
126
125
110
141
CANCELATION CIRCUIT ENABLE LINE
410
400
20
SATURATION CIRCUIT ENABLE LINE
28.01V REFERENCE

FIGURE 4

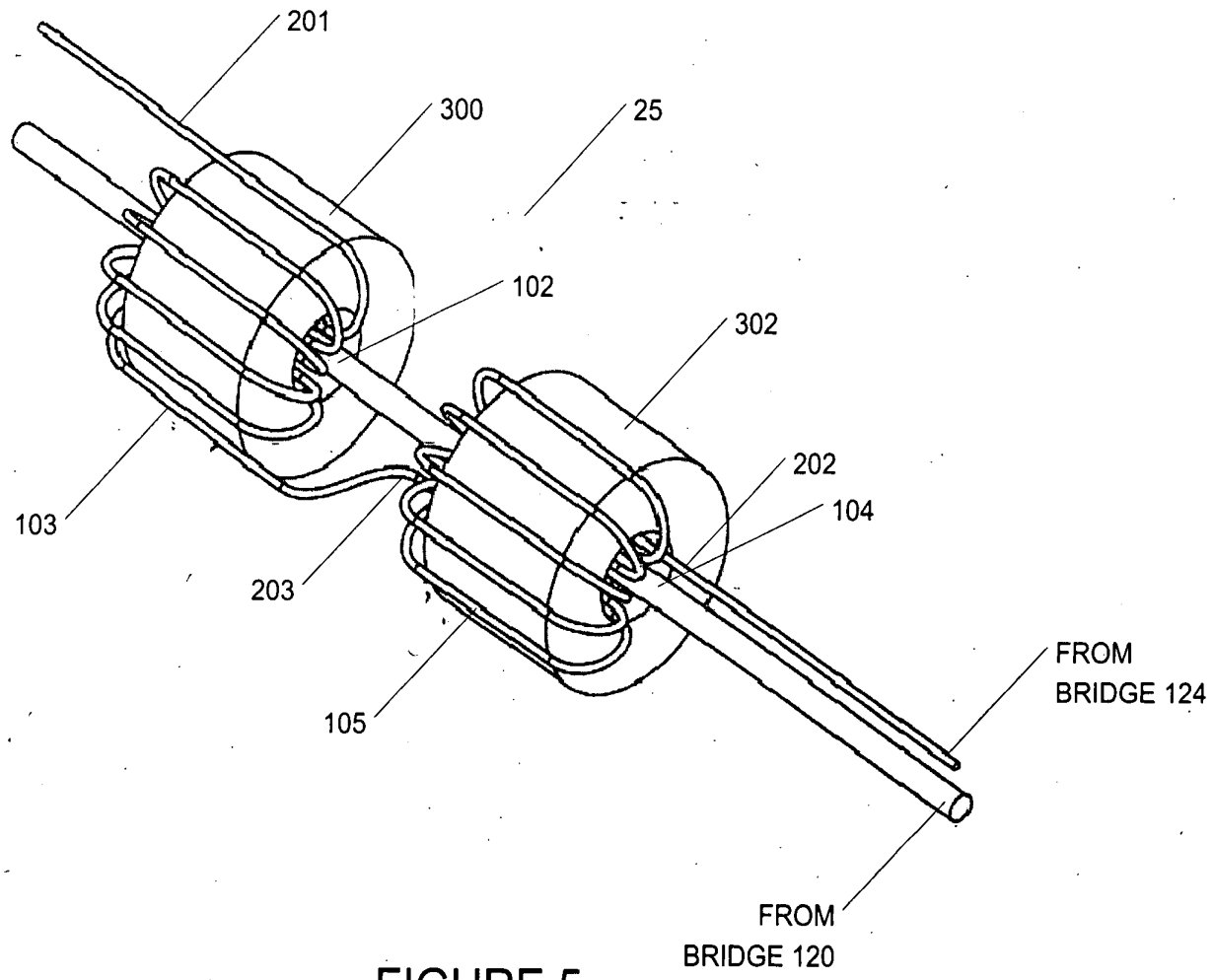
201
300
25
102
302
202
104
103
203
105
FROM
BRIDGE 124
FROM
BRIDGE 120

FIGURE 5

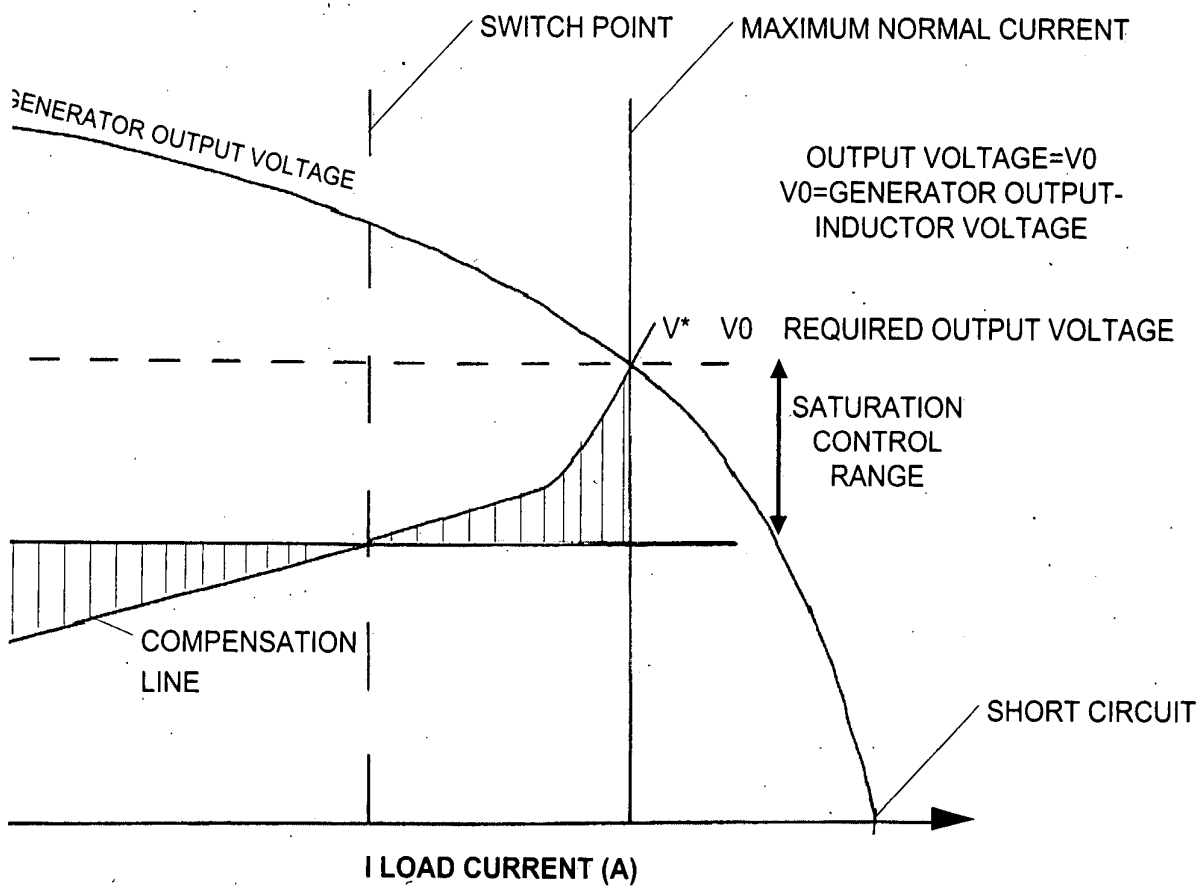
SWITCH POINT
MAXIMUM NORMAL CURRENT
GENERATOR OUTPUT VOLTAGE
OUTPUT VOLTAGE=V0
V0=GENERATOR OUTPUT-
INDUCTOR VOLTAGE
V*
V0
REQUIRED OUTPUT VOLTAGE
SATURATION
CONTROL
RANGE
COMPENSATION
LINE
SHORT CIRCUIT
I LOAD CURRENT (A)

FIGURE 6

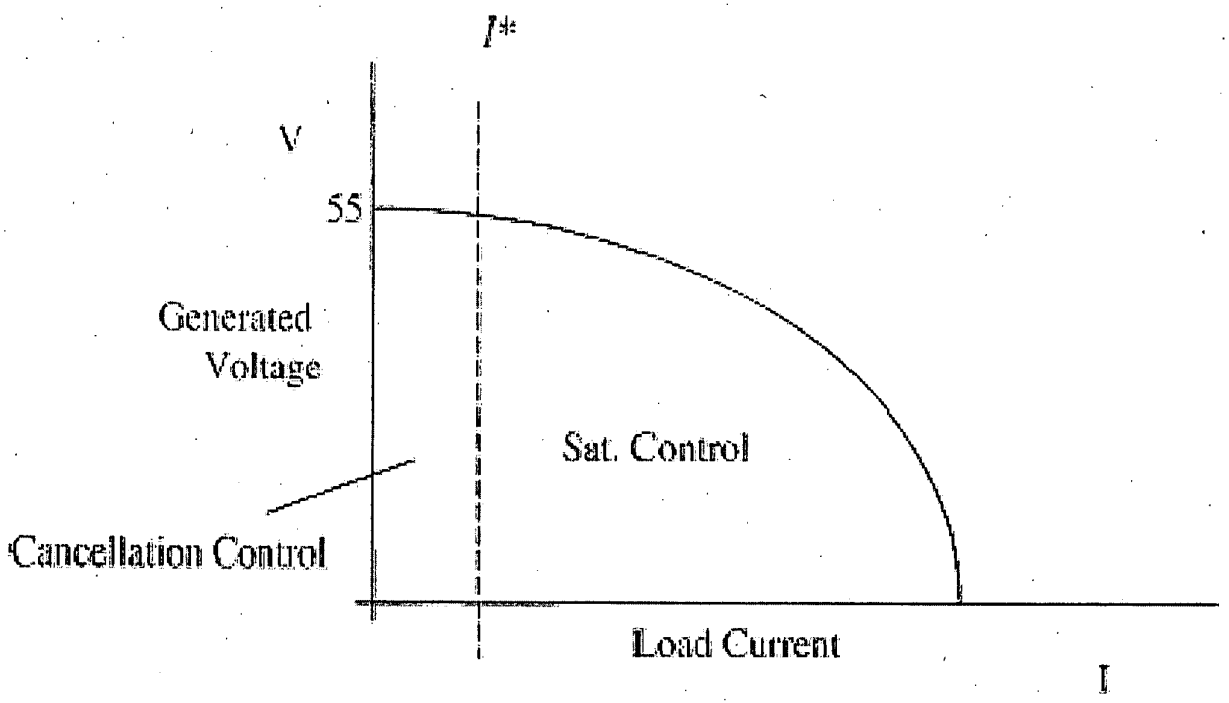
I*
V
55
Generated
Voltage
Sat. Control
Cancellation Control
Load Current
I

FIGURE 7